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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,643	10/21/2005	Pontus Wallentin	2380-888	6313
23117 NIXON & VAN	7590 06/07/201 NDERHYE, PC	EXAMINER		
901 NORTH GLEBE ROAD, 11TH FLOOR			BRANDT, CHRISTOPHER M	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			06/07/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/533,643	WALLENTIN, PONTUS	
Office Action Summary	Examiner	Art Unit	
	CHRISTOPHER M. BRANDT	2617	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) ■ Responsive to communication(s) filed on 11 I 2a) ■ This action is <b>FINAL</b> . 2b) ■ This action is <b>FINAL</b> . 2b) ■ This action is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4)  Claim(s) 1-19 and 24-27 is/are pending in the 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-19 and 24-27 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on 03 May 2005 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	accepted or b) objected to edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Bureat</li> <li>* See the attached detailed Office action for a list</li> </ul>	nts have been received. Its have been received in Applicat Pority documents have been receive Tau (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) ☐ Interview Summary	ı (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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#### DETAILED ACTION

# Response to Amendment

This Action is in response to applicant's arguments/amendments submitted on March 11, 2008. Claims 1-19 and 24-27 are now currently pending in the present application.

# Response to Arguments

Applicant's arguments with respect to claims 1-19 and 24-27 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-19 and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lehtovirta et al. (US PGPUB 2001/0034228 A1, hereinafter Lehtovirta) in view of Vialen et al. (US Patent 6,898,429 B1, hereinafter Vialen).

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Consider claim 1 (and similarly applied to claims 7, 11, 15, and 19). Lehtovirta discloses a node of a radio access network of a telecommunications system which prepares a message for transmission to at least one other node of the radio access network (paragraphs 17, 20, read as the RNC creates a message identifying those affected subscriber unit connections is sent to one or more other nodes), the message resulting from occurrence of a reset procedure affecting a control node which controls connections with user equipment units (30) in a connected mode (paragraph 17, where this message is sent if a node experiences a restart procedure (i.e. reset procedure)), the message including an element which collectively indicates that a subset of the connections are to be released so that the user equipment units involved in the subset of the connections can return to a registration connection (paragraphs 20, 44, 45, read as if there is a partial failure, such as a restart, the node forms a list of UEs and connections specifically affected by the partial failure, where the message includes UE identifiers and RAB identifiers (i.e. connection identifiers). In addition, the message includes whether the UE should maintain a registration connection).

Lehtovirta substantially discloses the claimed invention but fails to explicitly teach the element being recognizable when included in a further message received over an air interface by a user equipment unit having a connection in the subset whereby the user equipment unit can determine if it is to return to the idle mode.

However, Vialen teaches the element being recognizable when included in a further message received over an air interface by a user equipment unit having a connection in the subset whereby the user equipment unit can determine if it is to return to the idle mode (column 3 lines 23-36, column 4 lines 14-24, column 5 line 53 - column 6 line 4, read as the controlling or drift

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RNC sends a further message including an RNTI identifier based on the connection, where the message may be in regards to the releasing of a physical channel. In addition, if the message is regarding the release of a connection, the UE goes back into idle mode).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Vialen into the invention of Lehtovirta in order to reduce the signaling, thus conserving valuable resources.

Consider **claim 2** and as applied to claim 1. Lehtovirta and Vialen disclose wherein the node which prepares the message is a radio network control node which controls the connections (Lehtovirta; paragraph 21).

Consider **claim 3 and as applied to claim 1**. Lehtovirta and Vialen disclose wherein the node performs plural processes with each of the plural processes handling a respective one of plural subsets of connections with user equipments in the connected mode, and wherein when the reset procedure affects a specific one of the plural processes, an element corresponding to the respective one of the plural subsets of connections handled by the specific one of the plural processes is included in the message (Lehtovirta; paragraphs 15, 17).

Consider **claim 4 and as applied to claim 1**. Lehtovirta and Vialen disclose wherein the element comprises a group identity for the subset of connections; wherein the group identity comprises a group value and a group bit mask index, wherein the group bit mask index indicates bits of the group value which are common for all connections of the subset of connections; and wherein the group value is a group S-RNTI and the group bit mask index indicates the bits of the group S-RNTI which are common for all connections of the subset of connections (Lehtovirta; paragraph 44, where Lehtovirta discusses the message including a list with UE identifiers that

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are affected by the connection failure, Vialen; column 2 lines 42-56, read as s-RNTI pertaining to the connection).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Vialen into the invention of Lehtovirta in order to reduce the signaling, thus conserving valuable resources.

Consider claim 5 and as applied to claim 1. Lehtovirta and Vialen disclose wherein the further message is prepared by a drift radio network control node which provides radio resources for the connections handled by a serving radio network control node (Vialen; column 5 line 53 – column 6 line 4).

Consider claim 6 and as applied to claim 5. Lehtovirta and Vialen disclose wherein the element comprises a group identity for the subset of connections; wherein the group identity comprises a group value, and a group bit mask index, wherein the group bit mask index indicates bits of the group value which are common for all connections of the subset of connections; and wherein the group value is a group U-RNTI and the group bit mask index indicates the bits of the U-RNTI value which are common for all connections of the subset of connections (Vialen; column 2 lines 42-56, column 5 line 53 – column 6 line 4, read as the UTRAN-RNTI (U-RNTI)).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Vialen into the invention of Lehtovirta in order to reduce the signaling, thus conserving valuable resources.

Consider claim 8 and as applied to claim 7. Lehtovirta and Vialen disclose wherein the at least one drift control node is arranged, upon receipt of the message, to send a response message to the serving control node (Vialen; column 5 line 53 – column 6 line 4).

Consider **claim 9** and as applied to claim 7. Lehtovirta and Vialen disclose wherein the at least one drift control node sends the further message via a base station controlled by the at least one drift control node, the further message including a further element, the further element being derived from the element included in the message (Vialen; column 5 line 53 - column 6 line 4).

Consider **claim 10 and as applied to claim 9**. Lehtovirta and Vialen disclose wherein the further element comprises a group identity for the subset of connections; wherein the group identity comprises a control node identifier indicative of the serving control node, a group value, a group bit mask index, and wherein the group bit mask index indicates bits of the group value which are common for all connections of the subset of connections; and wherein the group value is a group U-RNTI and the group bit mask index indicates the bits of the U-RNTI value which are common for all connections of the subset of connections (Vialen; column 2 lines 42-56, column 5 line 53 – column 6 line 4, read as the UTRAN-RNTI (U-RNTI)).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Vialen into the invention of Lehtovirta in order to reduce the signaling, thus conserving valuable resources.

Consider **claim 12** and as applied to claim 11. Lehtovirta and Vialen disclose using a radio network control method which controls the connections to prepare the message (Lehtovirta; paragraph 20).

Consider **claim 13 and as applied to claim 11**. Lehtovirta and Vialen disclose performing at the node plural processes with each of the plural processes handling a respective one of plural subsets of connections with user equipment units in the connected mode; when the

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reset procedure affects a specific one of the plural processes, including in the message an element corresponding to the respective one of the plural subsets of connections handled by the specific one of the plural processes (Lehtovirta; paragraphs 15, 17).

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Consider **claim 14 and as applied to claim 11**. Lehtovirta and Vialen disclose using a drift radio network control node which provides radio resources for the connections handled by a serving radio network control node to prepare the further message (Vialen; column 5 line 53 – column 6 line 4).

Consider **claim 16 and as applied to claim 15**. Lehtovirta and Vialen disclose performing at the serving control node plural processes with each of the plural processes handling a respective one of plural subsets of connections with user equipment units in the connected mode; when the reset procedure affects a specific one of the plural processes, including in the message an element corresponding to the respective one of the plural subsets of connections handled by the specific one of the plural processes (Lehtovirta; paragraphs 15, 17).

Consider **claim 17 and as applied to claim 15**. Lehtovirta and Vialen disclose sending, from the at least one drift control node, a response message to the serving control node (Vialen; column 5 line 53 – column 6 line 4).

Consider **claim 18 and as applied to claim 15**. Lehtovirta and Vialen disclose sending from the at least one drift control node the further message to the user equipment unit via a base station controlled by the at least one drift control node; including in the further message a further element, the further element being derived from the element included in the message (Vialen; column 5 lines 53 – column 6 line 4).

Consider **claim 24 and as applied to claim 1**. Lehtovirta and Vialen disclose wherein the reset procedure occurs as a result of a failure of the node or of a core network node (Lehtovirta; paragraphs 15, 17).

Consider **claim 25 and as applied to claim 7**. Lehtovirta and Vialen disclose wherein the reset procedure occurs as a result of a failure of the serving control node or of a core network node (Lehtovirta; paragraphs 15, 17).

Consider **claim 26 and as applied to claim 11**. Lehtovirta and Vialen disclose wherein the reset procedure occurs as a result of a failure of the node or of a core network control node (Lehtovirta; paragraphs 15, 17).

Consider **claim 27 and as applied to claim 15**. Lehtovirta and Vialen disclose wherein the reset procedure occurs as a result of a failure of the node or of a core network node (Lehtovirta; paragraphs 15, 17).

### Conclusion

Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to:** 

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# Hand-delivered responses should be brought to

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Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098.

The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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2600.

/Christopher M Brandt/

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June 1, 2010